

CDC LabHIT Team Activities Update

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CLIAC Meeting
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Atlanta, Georgia

Outline

- ❑ **Background**
- ❑ **Activities of CDC Informatics Team**
- ❑ **Overall Project Status**

Background

❑ CLIAC September 2011

- Lab test report elements: The absence of some test report information in the EHR may result in patient safety issues
- EHR implementation: Communication issues are important and barriers may exist to safe and effective use of laboratory information
- Committee Recommendation: *"Implement a work group to outline the scope of issues related to communication of laboratory testing information and propose approaches to address these issues for discussion by CLIAC."*

Background (2)

- ❑ **CLIAC August 2012**
- ❑ **Letter to HHS Secretary¹ with a four part recommendation:**
 - Laboratory experts should be members of key ONC advisory committees and other agency groups that are setting standards and policies for laboratory information in the EHR.
 - Further work should be supported in the area of provider usability to mitigate patient safety risks.
 - A national system for reporting EHR laboratory-related safety events and near misses should be established.
 - A catalogue of various solutions for laboratory data should be created considering areas of expertise that may not have been previously engaged (e.g., human factors).

¹CLIAC Letter to HHS Secretary, September 26, 2012: <http://wwwn.cdc.gov/cliac/default.aspx>

LabHIT Team Effort Focus Areas

- ❑ **CDC LabHIT Team members monitor national activities and participate on a number of workgroups**
- ❑ **The team's efforts can be summarized in the following tactical areas:**
 - Clinical Laboratory Subject Matter Expert Input
 - External Partner Engagement
 - Internal CDC Engagement
 - Team Projects

Clinical Laboratory Subject Matter Expert Input

- ❑ **ONC Laboratory Report Workgroup Tiger Team**
 - Making recommendations to ONC that will reduce the cost and burden associated with implementing laboratory ordering and reporting interfaces with eligible providers, e.g. physician offices
 - Four workgroups - Tiger Team and three subgroups:
 - Policy
 - Standards
 - Certification and Testing
 - CDC and CMS providing SMEs
 - Diverse stakeholder representation; recent increased pathologist informaticist involvement

Clinical Laboratory Subject Matter Expert Input

❑ LOI/LRI CLIA Requirements Team

- CMS and CDC providing SMEs
- Working on laboratory requirements and EHR certification for Meaningful Use Stage 3

❑ CDC and Association for Public Health Laboratories (APHL) Laboratory Vocabulary Community of Practice

- Harmonizing SNOMED descriptions for specimen collection terminology

External Partner Engagement

- ❑ **Agency for Healthcare Research and Quality (AHRQ)**
 - Provided strategic suggestions to support implementation of the Pediatric EHR Format
- ❑ **American Health Information Management Association's (AHIMA)**
 - Attended November Data Integrity Summit
- ❑ **American Medical Informatics Association (AMIA)**
 - Connecting CEO with Association for Pathology Informatics
 - Supporting AMIA collaboration with AHIMA

External Partner Engagement

- ❑ **Federal Health Information Model (FHIMS)**
 - Connecting CDC's vocabulary efforts with other federal agencies
- ❑ **Food and Drug Administration (FDA)**
 - Supporting project concept for Semantic Interoperability Pilot
- ❑ **National Institute of Standards and Technology (NIST)**
 - Engaging in usability discussions

External Partner Engagement

- ❑ **Office of the National Coordinator (ONC)**
 - Engaging in usability and nomenclature discussions
 - Attended 2012 Annual Meeting
- ❑ **Regional Extension Centers Communities of Practice (REC CoPs)**
 - Exploring potential resources for clinical laboratories
- ❑ **Research at University of Texas (ONC funded)**
 - ❑ Providing feedback on *Safety Assurance Factors for EHR Resilience* (SAFER) Guides (CPOE and Test Results)

External Partner Engagement

❑ Strategic LabHIT Email Announcements

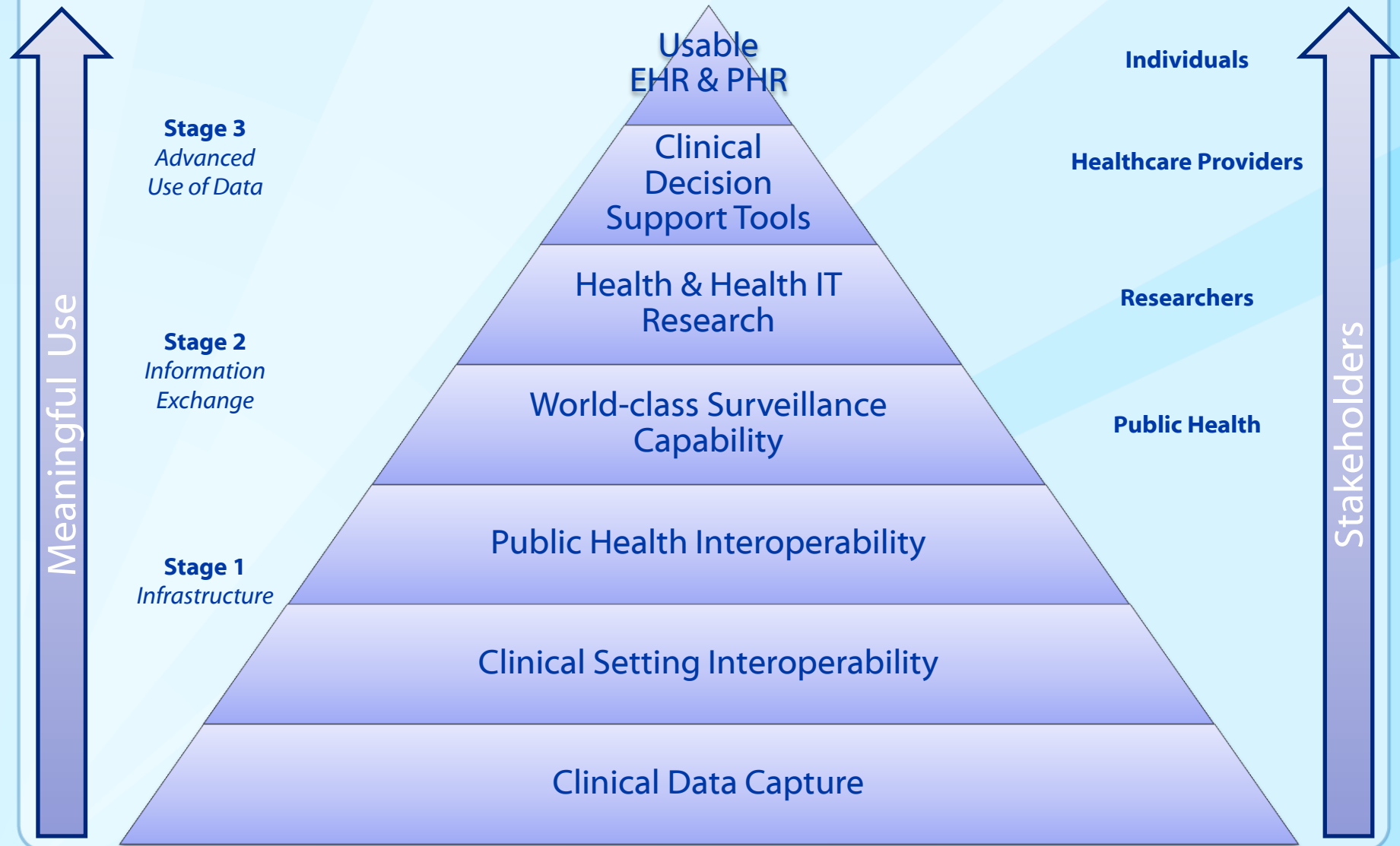
- Comment opportunities
 - ONC Stage 3 Meaningful Use Request for Comment
 - CMS Stage 3 Clinical Quality Measures (CQMs)
 - ONC 2014 EHR Certification Requirements: Wave 7
 - NQF Measures Application Partnership – 85 measures included or relate to laboratory testing
 - ONC Patient Safety Action and Surveillance Plan
- ONC Workgroups
 - HITPC Consumer Empowerment Workgroup
 - HITSC Consumer Technology Workgroup
 - HITPC FDA Safety Innovation Act (FDASIA) Workgroup

Internal CDC Engagement

- ❑ **Opportunities emerging for collaboration between clinical settings and public health**
- ❑ **Necessary to achieve interoperability of the entire healthcare system**
 - EHR Strategic Planning: Renewed understanding that success of EHR is critical to CDC surveillance
 - Surveillance Advisory Group: Learning from experience with CLIA and exploring opportunity to leverage NIST EHR certification profiles
 - Clinical Decision Support (CDS): Piloting process to develop tools to integrate CDC vetted algorithms in the EHR
 - Algorithm structure vetted by app first, then CDS tool considered
 - First app for CDS pilot is Prevent Group B Strep¹ (interactive)
 - CDS tool will automatically extract responses from EHR
 - Vocabulary efforts

¹Prevent Group B Strep Smartphone App: <http://www2a.cdc.gov/vaccines/m/gbs/ie/GBS.html> ¹²

CDC utilizes electronic health record data to inform decision making for individuals, healthcare providers, researchers and public health.



Team Activities and Projects

- ❑ **Communication in Informatics Workgroup**
 - Provided comments on white paper recommendations
 - Engaged for comments on proposed regulations, guidelines
 - Offered input on SAFER Guides
 - Provided real life examples of EHR usability issues
- ❑ **Sustainable vocabulary, e.g. SNOMED, LOINC, UCUM**
- ❑ **Submitted comments:**
 - ONC EHR Certification for Meaningful Use Stage 3
 - ONC Patient Safety Action and Surveillance Plan (in progress)
- ❑ **Guidance development opportunities under consideration**
 - Interoperability and/or Usability guidance
 - Pending completion of ONC Laboratory Report Workgroup Tiger Team recommendations
- ❑ **Innovation Conference**

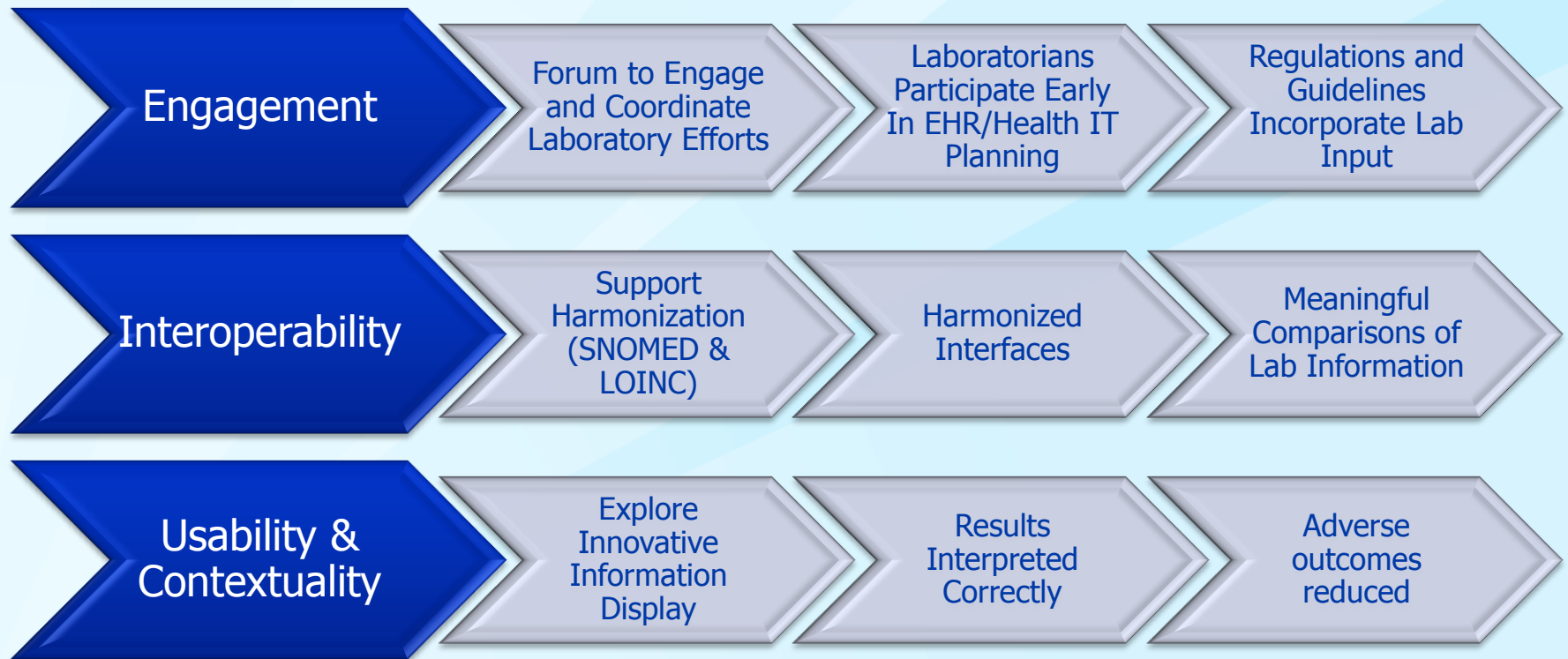
White Paper

- ❑ **A Call to Action: Ensuring the Safety and Effectiveness of Laboratory Data in EHR Systems**
 - Target audience is laboratory professional organizations and individual laboratory professionals
 - Three main recommendations with actionable strategies under each:
 - Engagement: Provide laboratory expertise for health IT decision making at national and local levels in the design, development, and implementation of EHR systems;
 - Data Integrity and Usability: Ensure that unambiguous and functional laboratory data is accurately presented in the EHR and available at the point of care; and
 - Innovation: Foster innovation in EHR technology and usability that will lead to the reduction of errors.
 - Draft receiving final touches; communication plan under development for broad dissemination

LABHIT VISION:
***LABORATORY INFORMATION CONTRIBUTES TO
OPTIMIZED HEALTHCARE DECISION MAKING.***

Next step: Communication in Informatics Project

Logic Model



LabHIT Team Project Status

❑ Engagement

- ✓ Establish committee of laboratory professionals and experts
- Implement communication plan (in progress)
- ✓ Facilitate national EHR/ELR workgroup participation

❑ Interoperability

- ✓ Continue participation in CDC workgroups
- Publish white paper on challenges and opportunities (in progress)
- Facilitate implementation of solutions (following ONC Tiger Team recommendations)

❑ Usability & Contextuality

- Facilitate collaboration and exploration of innovative means to integrate laboratory information in the EHR
- Integrate other CDC initiatives in collaborative efforts, including CLIHCTM, LMBP, and Molecular Genetics Results Interpretation

For more information please contact Centers for Disease Control and Prevention

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The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.